ABSTRACT

A method of generating an area light source by scanning, an area light source and a laser projection television using the same. The method comprising the steps of illuminating a light beam onto a rotating polygon mirror rotating at a high speed on which each plane mirror has a predetermining slope angle with respect to it own rotating axis, and generating a 2-D scanning area. The invention provides a scanning area light source having uniform brightness, non-interference and high efficiency by uniform illumination of the spatial light modulator in a video display. Its scanning characteristics are that each of scanning points can cover many pixels, and that the adjacent scanning lines overlap a relatively large part to ensure uniform luminance of the scanning plane. (Fig.1)